

tennae cases firmly united in one piece at emergence; basal parts of first legs entirely concealed, the maxillae reaching down the center to the tip of case. Abdominal segments punctured.

#### THE BUTTERFLIES OF HILDESHEIM.

OUR countryman, Mr. A. R. Grote, has signalized his appointment to the charge of the Roemer Museum in Hildesheim by establishing an issue of papers under the title *Mitteilungen*. These appear by numbers in imperial octavo, very handsomely printed and illustrated. No. 8 is concerned with the butterflies of Hildesheim and is by Mr. Grote himself, as four previous numbers have been (44 pp., 4 pl.) Its subject would not much interest American naturalists did the paper not go far beyond what the title indicates, being mostly concerned with a general classification of butterflies (or at least those of Hildesheim), which in several points differs materially from classifications in vogue, if any can be called in vogue in this time of flux.

Butterflies are first divided into two great groups, the Parnassi-Papilionidae and the

Pieri-Hesperiidae. The first contains the two groups indicated by its title, regarded as families. The second includes ten families, which in their order downward are Pieridae, Nymphalidae, Agapetidae (Satyridae), Limnadiidae (Danaiidae), Libytheidae, Nemeobiidae (*Nemeobius lucina*), Riodinidae (Erycinidae—non European), Lycaenidae, Hesperiidae and Megathymidae (Megathymus—an American type). The last five families Grote looks upon as an early and simultaneous offshoot from the Pieri-Hesperidian stem, which last culminated in the Pieridae, but on its way thereafter threw off the branch which included the remaining families, in the order Libytheidae, Limnadiidae and Agapetidae.

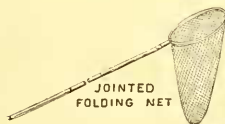
The scheme is based solely on the wing-venuration and has its merits and demerits on this ground. The most striking innovation is the primary subdivision which ignores previous dichotomy by leaving the Hesperidae in conjunction with others; a minor one is the separation, with family signification, of *Nemeobius* from the Riodinidae; it shows the length to which one may go in discussing classification from a single standpoint.

Guide to the Genera and Classification of the Orthoptera of North America north of Mexico. By SAMUEL H. SCUDDER. 90 pp. 8<sup>o</sup>.

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